

WHAT IS CLAIMED IS:

1. A composition suitable for sanitizing, deodorizing and refreshing a ballistic fabric, said composition comprises

- (a) a carrier;
- (b) optionally, silicone compounds and/or emulsions;
- (c) optionally, an effective amount of a wrinkle control agent selected from the group consisting of wrinkle control polymers, fabric care saccharides, lithium salts, fabric lubricants, and mixtures thereof;
- (d) optionally, an effective amount of a supplemental surface tension control agent;
- (e) optionally, an effective amount to absorb or reduce malodor, of odor control agent;
- (f) optionally, an effective amount to provide olfactory effects of perfume;
- (g) optionally, an effective amount of solubilized, water-soluble, antimicrobial preservative;
- (h) optionally, adjunct ingredients selected from the group consisting of adjunct odor-controlling materials, chelating agents, viscosity control agents, additional antistatic agents, insect and moth repelling agents, colorants, anti-clogging agents, and mixtures thereof;

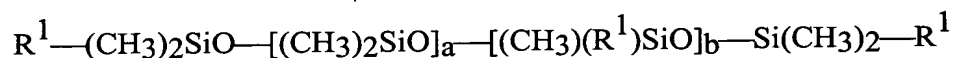
wherein said composition has a pH of from about 3 to about 11, comprises at least one of (e) and (g) and at least one of (b) to (h) a viscosity of less than about 100 cP and wherein said composition does not reduce the reduce the ballistic properties of said ballistic fabric after at least two applications.

2. The composition of Claim 1 wherein said polymer comprising carboxylic acid moieties is at a level of from about 0.001% to about 25% by weight of said composition, and wherein said composition has a pH of from about 4 to about 9 and a viscosity of less than about 50 cP.

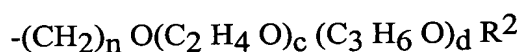
3. The composition of Claim 2 wherein said polymer comprising carboxylic acid moieties is selected from the group consisting of silicone graft copolymers, silicone block copolymers, and mixtures thereof.

4. The composition of Claim 3 wherein said composition further comprises a silicone compound, silicone emulsion, or mixtures thereof.

5. The composition of Claim 4 wherein said silicone compound is a polyalkylene oxide polysiloxane having the formula:



wherein a + b are from about 1 to about 50, and each R¹ is the same or different and is selected from the group consisting of a methyl group and a poly(ethyleneoxide/propyleneoxide) copolymer group having the general formula:



wherein at least one R¹ is a poly(ethyleneoxy/propyleneoxy) copolymer group, and wherein n is 3 or 4; total c (for all polyalkyleneoxy side groups) has a value of from 1 to about 100; total c+d has a value of from about 5 to about 150, and each R² is the same or different and is selected from the group consisting of hydrogen, an alkyl having 1 to 4 carbon atoms, and an acetyl group.

6. The composition of Claim 5 wherein said composition further comprises a supplemental wrinkle control agent selected from the group consisting of adjunct polymers free of carboxylic acid moieties, starches, fabric care saccharides, lithium salts, fiber fabric lubricant, and mixtures thereof.

7. The composition of Claim 4 wherein said supplemental wrinkle control agent is a fabric care saccharide selected from the group consisting of primary fabric care polysaccharide, adjunct fabric care oligosaccharide, and mixtures thereof.

8. The composition of Claim 1 wherein said carrier further comprises solvent, plasticizer, or mixtures thereof.

9. The composition of Claim 8 wherein said solvent is ethanol or other low molecular weight alcohols or polyols.

10. The composition of Claim 1 wherein said composition further comprises a supplemental surface tension control agent selected from the group consisting of nonionic

surfactant, ionic surfactant, zwitterionic surfactant, fluorine-based surfactant, and mixtures thereof.

11. The composition of Claim 10 wherein said supplemental surface tension control agent is a fluorine-based surfactant selected from the group consisting of fluorinated alkyl polyoxyalkylene, fluorinated alkyl esters, and mixtures thereof.

12. A composition for reducing or removing odors and fungal growth on a ballistic fabric comprising:

- (a) a polymer comprising carboxylic acid moieties;
- (b) a silicone compound;
- (c) a fabric care saccharide;
- (d) an odor control agent comprising cyclodextrin;
- (e) an antimicrobial preservative;
- (f) perfume; and
- (g) a carrier comprising water

wherein said composition has a pH of from about 4 to about 9 and a viscosity of less than about 50 cP and wherein said composition does not reduce the ballistic properties of said ballistic fabric after at least two applications.

13. A method for reducing or removing odors and fungal growth on a ballistic fabric which comprises the steps of contacting the fabrics with a composition comprising

- (a) a carrier;
- (b) optionally, silicone compounds and/or emulsions;
- (c) optionally, an effective amount of a wrinkle control agent selected from the group consisting of wrinkle control polymers, fabric care saccharides, lithium salts, fabric lubricants, and mixtures thereof;
- (d) optionally, an effective amount of a supplemental surface tension control agent;
- (e) optionally, an effective amount to absorb or reduce malodor, of odor control agent;
- (f) optionally, an effective amount to provide olfactory effects of perfume;
- (g) optionally, an effective amount of solubilized, water-soluble, antimicrobial preservative;

- (h) optionally, adjunct ingredients selected from the group consisting of adjunct odor-controlling materials, chelating agents, viscosity control agents, additional antistatic agents, insect and moth repelling agents, colorants, anti-clogging agents, and mixtures thereof;

wherein said composition has a pH of from about 3 to about 11, comprises at least one of (e) and (g) and at least one of (b) to (h), a viscosity of less than about 100 cP and wherein said composition does not reduce the ballistic properties of said ballistic fabric after at least two applications.

14. The method according to Claim 13, wherein the composition is contacted with the fabrics by means of a spray dispenser.

15. The method according to anyone of Claim 13, wherein the fabrics are treated with a dewrinkling apparatus.

16. The method according to Claim 15, wherein the apparatus comprises spraying means capable of providing droplets with a mean diameter of 3 to 50 μm .

17. An article of manufacture comprising the composition according to Claim 1 in a spray dispenser

18. The article of manufacture according to Claim 17 wherein said spray dispenser comprises a trigger spray device and is capable of providing droplets with a weight average diameter of from 8 to 100 μm

19. A composition suitable for sanitizing, deodorizing and refreshing protective garments, said composition comprises

- (a) a carrier;
- (b) optionally, silicone compounds and/or emulsions;
- (c) optionally, an effective amount of a wrinkle control agent selected from the group consisting of wrinkle control polymers, fabric care saccharides, lithium salts, fabric lubricants, and mixtures thereof;
- (d) optionally, an effective amount of a supplemental surface tension control agent;

- (e) optionally, an effective amount to absorb or reduce malodor, of odor control agent;
- (f) optionally, an effective amount to provide olfactory effects of perfume;
- (g) optionally, an effective amount of solubilized, water-soluble, antimicrobial preservative;
- (h) optionally, adjunct ingredients selected from the group consisting of adjunct odor-controlling materials, chelating agents, viscosity control agents, additional antistatic agents, insect and moth repelling agents, colorants, anti-clogging agents, and mixtures thereof;

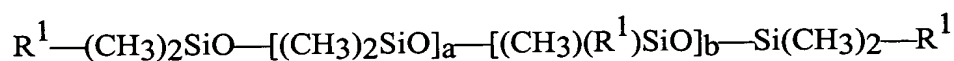
wherein said composition has a pH of from about 3 to about 11 comprises at least one of (e) and (g) and at least one of (b) to (h) and a viscosity of less than about 100 cP and wherein said composition does not reduce the protective properties of said protective garments after at least two applications.

20. The composition of Claim 19 wherein said polymer comprising carboxylic acid moieties is at a level of from about 0.001% to about 25% by weight of said composition, and wherein said composition has a pH of from about 4 to about 9 and a viscosity of less than about 50 cP.

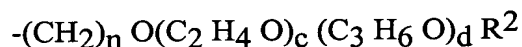
21. The composition of Claim 20 wherein said polymer comprising carboxylic acid moieties is selected from the group consisting of silicone graft copolymers, silicone block copolymers, and mixtures thereof.

22. The composition of Claim 21 wherein said composition further comprises a silicone compound, silicone emulsion, or mixtures thereof.

23. The composition of Claim 22 wherein said silicone compound is a polyalkylene oxide polysiloxane having the formula:



wherein $a + b$ are from about 1 to about 50, and each R^1 is the same or different and is selected from the group consisting of a methyl group and a poly(ethyleneoxide/propyleneoxide) copolymer group having the general formula:



wherein at least one R^1 is a poly(ethyleneoxy/propyleneoxy) copolymer group, and wherein n is 3 or 4; total c (for all polyalkyleneoxy side groups) has a value of from 1 to about 100; total $c+d$ has a value of from about 5 to about 150, and each R^2 is the same or different and is selected from the group consisting of hydrogen, an alkyl having 1 to 4 carbon atoms, and an acetyl group.

24. The composition of Claim 23 wherein said composition further comprises a supplemental wrinkle control agent selected from the group consisting of adjunct polymers free of carboxylic acid moieties, starches, fabric care saccharides, lithium salts, fiber fabric lubricant, and mixtures thereof.

25. The composition of Claim 23 wherein said supplemental wrinkle control agent is a fabric care saccharide selected from the group consisting of primary fabric care polysaccharide, adjunct fabric care oligosaccharide, and mixtures thereof.

26. The composition of Claim 19 wherein said carrier further comprises solvent, plasticizer, or mixtures thereof.

27. The composition of Claim 26 wherein said solvent is ethanol.

28. The composition of Claim 19 wherein said composition further comprises a supplemental surface tension control agent selected from the group consisting of nonionic surfactant, ionic surfactant, zwitterionic surfactant, fluorine-based surfactant, and mixtures thereof.

29. The composition of Claim 28 wherein said supplemental surface tension control agent is a fluorine-based surfactant selected from the group consisting of fluorinated alkyl polyoxyalkylene, fluorinated alkyl esters, and mixtures thereof.

30 The composition of Claim 19 wherein said protective garments are rigid and selected from the group consisting of helmets, shin guards, knee guards, elbow pads,

31. An composition for reducing or removing odors and fungal growth on and/or in a protective garment comprising:

- (a) a polymer comprising carboxylic acid moieties;
- (b) a silicone compound;
- (c) a fabric care saccharide;
- (d) an odor control agent comprising cyclodextrin;
- (e) an antimicrobial preservative;
- (f) perfume; and
- (g) a carrier comprising water

wherein said composition has a pH of from about 5 to about 6.5 and a viscosity of less than about 15 cP and wherein said composition does not reduce the ballistic properties of said ballistic fabric after at least two applications.

32. A method for reducing or removing odors and fungal growth on and/or in a protective garment which comprises the steps of contacting said garment with a composition comprising

- (a) a carrier;
- (b) optionally, silicone compounds and/or emulsions;
- (c) optionally, an effective amount of a wrinkle control agent selected from the group consisting of wrinkle control polymers, fabric care saccharides, lithium salts, fabric lubricants, and mixtures thereof;
- (d) optionally, an effective amount of a supplemental surface tension control agent;
- (e) optionally, an effective amount to absorb or reduce malodor, of odor control agent;
- (f) optionally, an effective amount to provide olfactory effects of perfume;
- (g) optionally, an effective amount of solubilized, water-soluble, antimicrobial preservative;
- (h) optionally, adjunct ingredients selected from the group consisting of adjunct odor-controlling materials, chelating agents, viscosity control agents, additional antistatic agents, insect and moth repelling agents, colorants, anti-clogging agents, and mixtures thereof;

wherein said composition has a pH of from about 3 to about 11 comprises at least one of (e) and (g) and at least one of (b) to (h) a viscosity of less than about 100 cP and wherein said composition does not reduce the ballistic properties of said ballistic fabric after at least two applications.

33. The method according to Claim 32, wherein the composition is contacted with the garment by means of a spray dispenser.

34. The method according to anyone of Claim 32, wherein the garment are placed into a dewrinkling apparatus.

35. The method according to Claim 34, wherein the apparatus comprises spraying means capable of providing droplets with a mean diameter of 3 to 50 μm .

36. An article of manufacture comprising the composition according to Claim 19 in a spray dispenser.

37. The article of manufacture according to Claim 36 wherein said spray dispenser comprises a trigger spray device and is capable of providing droplets with a weight average diameter of from 8 to 100 μm .

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